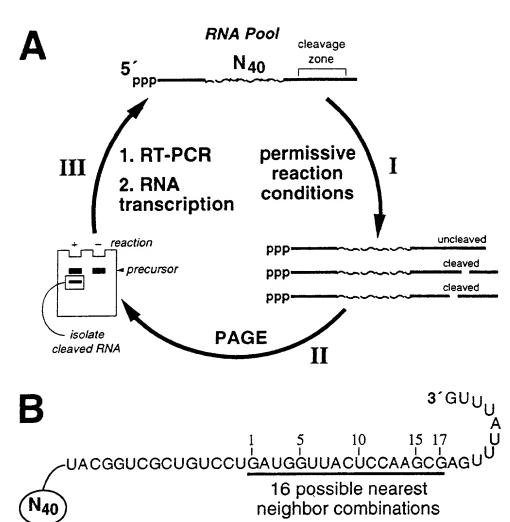
Figure 1



AACCGAUGCAGAAGGppp

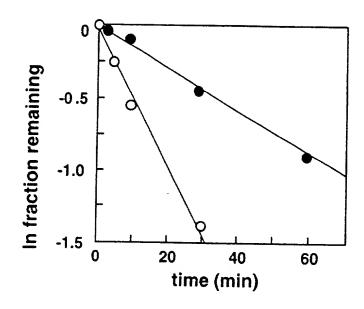
(SEQ ID NO 58)

## Figure 2

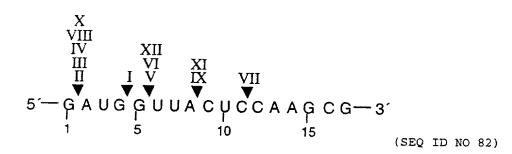
Class IV G6  2	Class VIII (612)  + 281 (mm) <sup>-1</sup> ) = 1 x 10 <sup>-1</sup> - 50 UCC U G OU V. C. C. C. A. G. C. G.	Class XII (G15)   (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
Class III G6  kosa (mma*i) = 3 x 10 4  sous (c v G v G d v G G v G G S S S S S S S S S S S S S S	Class VII  46bk (man 1-1) = 1 x 10 -4  Substrate domain  1850 0 00 70 13 13 10 -4  12 U G G G G G U G U C T C C C C C G U G U C C C C C C G U G U C C C C	Class XI (G15)  4006 (mmo <sup>-1</sup> ) = 8 x 10 <sup>-3</sup> - 5 a d d d C U U V mblente 3 - 5 a d d C U G U U C C meryme 5 3 - 4
Class II G6   400 (ma <sup>1</sup> ) = 5 x 10 <sup>-2</sup> 5 y y y C y G y y y y y y y y y y y y y y	Class VI (G9)  4 opt (ma <sup>1</sup> ) = 2 t 10 <sup>-4</sup> C G U C G C U C G C U C G C U C G C U C G C U C G C U C G C U C G C U C G G G G	Class X (G15)
Class 1 (G6)  - kees (mmo **) = 1 x 10 ** 3 ** 3 ** 3 ** 6 ** 6 ** 6 ** 6 **	Class V (G9)   #504 (mm) = 1.4  0.2  #504 (c C G G C C C G G C G G G G G G G G G G	Chass IX  Chass IX  And Control of S  And Contro

## Figure 3

A



В



## Figure 4

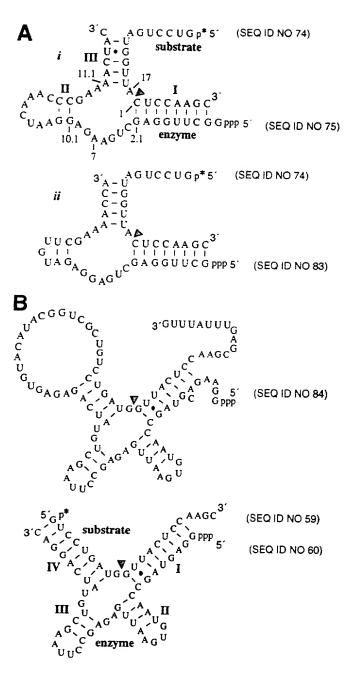
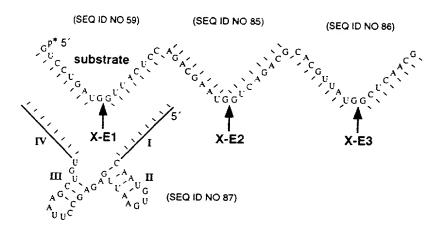


Figure 5



Rate for 6@7 2'-O-Me arms and all ribo core  $K_{\rm obs}$  = 0.056 and 0.058 min <sup>-1</sup> Rate for all 2'-O-Me enzyme with A14.1 = ribo  $K_{obs}$  = 0.00008 min <sup>-1</sup>

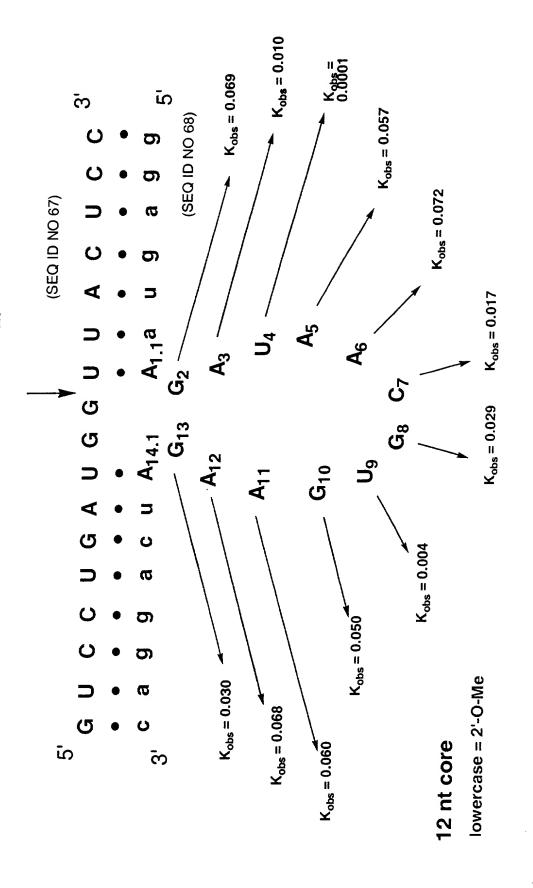
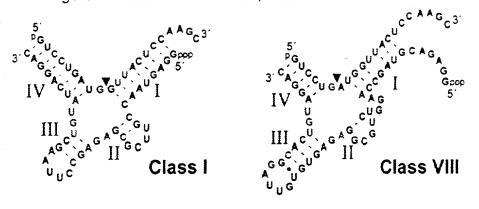


Figure 7: Class I and VIII Sequence and Structural Similarities



Class I motif cleavage site

2 = complementary to 1 3 = G, A or U

4 = complementary to 3

